

Tasks and extensions completed

I have attempted and completed all the basic tasks for the practical specification. As a minor extension invented by me I have also included a third option for searching by just entering a full text description, which displays most popular videos for a given input text and fourth (only start and end dates), which displays most popular videos in the time range. As another minor extension I have also extended the search rows of the query to 50 (**the videos are 50 prior to removing duplicates**), so that a richer set of videos is returned.

Design and implementation

For the purpose of this practical I have decided to use angular because I assume that its functionality is appropriate for the task as it makes a fluent transition between javascript and html and I will also state why implicitly I have used it in some situations. Apart from that I combine angular with java script and also use moment.js to format dates.

During the course of the report I am going to describe how my html, css and javascript files work at the same time.

To start with the outermost <div> element is declared as the Angular application and it has controller "myCtrl" which is created in the javascript file and is used to manipulate the data in the app. After that in the HTML file follow the user input elements, which provide the Fulltext, endDate and startDate used by the controller to construct the solr search query. After that is my button with the submitSearch() function.

SubmitSearch() - the submitsearch function simply builds a query based on the user's input, I have included comments in the code do briefly describe the different if statements. After that the function uses the &http.get function of the controller to get a response from the server in the form of a json file and stores it in a variable jsonData. Then I create another empty array noDupVideos, which is going to contain my videos without duplicates and an IDs array which is going to contain Id's of videos already transferred from the old array to the new one. Consequently, I loop through the jsonData array and add non repeating videos to the new array. Finally I assign the noDupVideos array to the "videos" array which is in the scope of the Angular app.

Then thanks to Angular's repeat function, I easily sort the videos by position and publication date using angular's orderBy function (**-publishedAt** for descending order) (another huge advantage of using angular otherwise I would have had to create js functions to compare and sort the videos) and after that display the appropriate videos' titles and images in my list. I change the type of each element to "button", so it can be later clicked and played in the hitlist's player. This looks so much better than embedding each video into a button.

Then we come to the second part in which a video is clicked by the user. The displayVideo() function is invoked.

Testing

Using only startDate and text (result/s for one day) :



Puppy realizes he's at dog park, goes absolutely bonkers

SO FUNNY

Published at : 15-09-2016



A woman with long dark hair, wearing a blue hoodie, is sitting at a wooden desk and smiling while looking at a silver laptop. The laptop has a glowing Apple logo. In the background, there is a wooden shelf with various items, including a small brown monkey figurine, a framed picture, and some bottles. A large black play button icon is overlaid in the center of the image, indicating it is a video thumbnail. In the top left corner, the text "10 years!" is written in a white, casual font. In the top right corner, there is a small white icon of a hand pointing upwards.

Published at : 13-09-2016

Using start, end dates and text:

CS2003 Web1 Assignment: Youtube hitlist

Fulltext: Start Date: End Date:

1. My "Friday in Orem" - Facebook Auto-Made a Chipper Slideshow of my Car Accident



2. \$250,000 car gets windshield SMASHED by kid on a skateboard!!!



3. Red Hot Chili Peppers - The Getaway [OFFICIAL AUDIO]



4. Full Video: Brawl breaks out in Costco parking lot Mississauga.



My "Friday in Orem" - Facebook Auto-Made a Chipper Slideshow of my Car Accident



Facebook auto-made a chipper slideshow of my near-fatal car accident. I was in the green 4Runner. My iPhone and Apple Watch was fine. I had noticed a black sports car behind me about 500-750 feet traveling quite quickly, beginning to slow down so he wouldn't hit me. Then, that red car lost control, drifted, then rear-ended me going an easy 95mph – he was hauling. He hit into my rear passenger side bumper, so my tail slid to the left and scratched their hood with the roof of my car, then landed on my roof and continued to slide. That's when my sunroof shattered, and sparks from my seat belt, but had to also hold my left elbow down against the sliding concrete to prevent my head from sliding and getting mangled. I was cement. Once the car stopped sliding, I gathered myself, made sure I wasn't seriously injured elsewhere on my body, undid my seat belt, and crawled a bit – enough for me to crawl out. My legs were shaking pretty uncontrollably for a while as I walked around cracking stupid jokes with the was, and I just kept thinking that I should probably be angry and yelling at him right now, but didn't. One of the firefighters/EMTs came over, looked he'd never seen someone just walk away from an accident like that. I've never hugged my wife and two-year old daughter tighter. To use this video

Published at : 12-09-2016

CS2003 Web1 Assignment: Youtube hitlist

Fulltext: Start Date: End Date:

2. UFC 202 Embedded: Vlog Series - Episode 4



3. UFC 202: Nate Diaz Reacts to Conor McGregor Loss, Smokes E-cigarette



4. CM Punk vs Mickey Gall Full Fight - UFC 203



5. Watch the full UFC 202 Pre-Fight Press Conference (Uncensored)



Watch the full UFC 202 Pre-Fight Press Conference (Uncensored)



See for yourself what happened between Nate Diaz and Conor McGregor at the UFC 202 Pre-Fight Press Conference. -----Mc v=kmpXlUd_SKQ Dana White on 'The Herd' prior to UFC 202 (FULL INTERVIEW) <https://www.youtube.com/watch?v=1iQu5Mhttps://www.youtube.com/watch?v=Dde2xca2SUy> ----- UFC News from FOXSPORTS.(mcgregor-says-ufc-200-bombed-without-him-on-the-card-081616 Dana White: Win, lose or draw, Conor McGregor will defend his title after ufc-202-081716 CM Punk: 'WWE superstars 'got worked' by Conor McGregor <http://www.foxsports.com/l> ----- Watch the latest UFC ON FOX content: <http://foxs.pt/ZEONsH> Connect with UFC ON FOX Online: Visit the UFC ON FOX <https://www.facebook.com/UFCONFOX> Follow UFC ON FOX on TWITTER: <https://twitter.com/UFCONFOX> About UFC ON FOX attempt and share it with you, THE FAN. Our talent includes past and current UFC Fighters, Kenny Florian, Brian Stann, and D and the best from the top athletes in MMA from Ronda Rousey, Anderson Silva, Cain Velasquez, Rashad Evans, Anthony Pett

Published at : 18-08-2016

Using only Fulltext(minor extension):

CS2003 Web1 Assignment: Youtube hitlist

Fulltext:

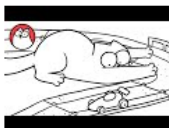
Start Date:

End Date:

1. Fish Tank - Simon's Cat



2. Fast Track - Simon's Cat



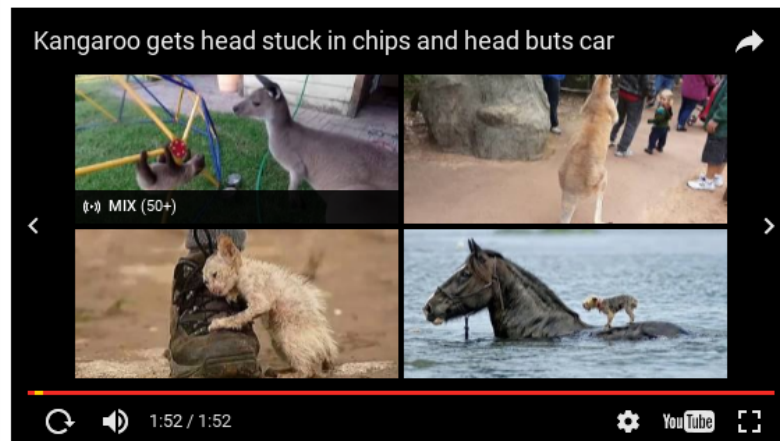
3. 'What if I killed your cat Piers Morgan infuriates 12 year old hunter



4. Simon's Cat Logic - Why Do Cats Love Boxes?!



Kangaroo gets head stuck in chips and head butts car



Serpentines fall, Western Australia, I noticed a kangaroo going through the bin and it got it's head

Published at : 14-07-2016

Using only Start and End dates (minor extension)


CS2003 Web1 Assignment: Youtube hitlist

Fulltext:


Start Date:

End Date:


1. WHY I GOT UNVERIFIED




2. YouTube Is Shutting Down My Channel and I'm Not Sure What To Do



3. A two-year-old's solution to the trolley problem



4. Stranger Things 2 | Netflix



Welcome to the CS2003 Youtube Hitlist!

Use the search fields above, then select a video from the list on the left to play it.

Critical Analysis

I think that I managed to complete the specifications appropriately. I did not attempt anything on the CSS part apart from hiding the default content and displaying the video chosen by the user. Also there may be a better algorithm for removing duplicates. Apart from that I think that I managed to achieve a reasonable solution to the practical. The thing that I found most challenging was indeed to start up and get the basics on how the angular api helps me to manipulate the elements in my programme. After that it was relatively straight forward, apart from figuring out an appropriate algorithm for removing duplicates and finding the angular's function for sorting the videos.